

## EENS Job Risk Assessment

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<b>Name(s) of Risk Team Members:</b> J. Boccio, J. Adams, C. Dodge, J. Saccheri, L. Fishbone, M. Fuhrmann, P. Northrup, N. Contos	<b>Point Value → Parameter ↓</b>	1	2	3	4	5
<b>Job Title: Working with Dispersible Radioactive Materials</b>  <b>JRA#: EENS-JRA-022</b>  <b>Rev. #: 0</b> <b>Date: 12/14/05</b>	<b>Frequency (B)</b>	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
<b>Job Description: Radioactive Dispersible Use</b>	<b>Severity (C)</b>	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
<b>Training and Procedure List (Optional):</b> RWT-002, RWT-500, SBMS SA	<b>Likelihood (D)</b>	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
<b>Approved by:</b> Patrick Sullivan <b>Date: 8/31/06</b>						
<b>Stressors (if applicable, please list all): none</b>		<b>Reason for Revision (if applicable):</b>			<b>Comments:</b>	

								Before Additional Controls						After Additional Controls				
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction		
Using dispersible radioactive materials	Radiation exposure	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radiological surveys, labeling, shielding, PPE	N	2	3	1	2	12										

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Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Using dispersible radioactive materials	Radioactive contamination from dispersed materials	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, PPE, calibrated instruments, ALARA Coordinator, Administrative Control Levels, containments, fume hoods, glove boxes, physical areas/boundaries, radiological surveys, labeling, hood face velocity tests, personnel monitoring	N	2	3	3	2	36								
Preparing & handling unsealed sources, eg. foils, electro-deposited materials, sources with layers of containment such as Kapton tape	Radiation exposure	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radiological surveys, labeling, shielding, PPE	N	1	2	1	2	4								
Preparing & handling unsealed sources, eg. foils, electro-deposited materials, sources with layers of containment such as Kapton tape	Radioactive contamination from dispersed materials	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, PPE, calibrated instruments, ALARA Coordinator, Administrative Control Levels, containments, fume hoods, glove boxes, physical areas/boundaries, radiological surveys, decontaminate as needed, minimize size of work area, labeling, hood face velocity tests, personnel monitoring	N	1	2	1	2	4								
Transporting radioactive materials within a building or lab	Radiation exposure	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radiological surveys, shielding, packaging, labeling	N	1	3	2	4	24								

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Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Transporting radioactive materials within a building or lab	Radioactive contamination from dispersed materials, loss of material control, spills	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radiological surveys, shielding, packaging, secondary containment for liquids/powders, labeling	N	1	3	2	4	24								
Transporting radioactive materials to another building on site	Radiation exposure	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radiological surveys, shielding, packaging, labeling, government vehicle, FS notifications, Hazardous Material Transportation Safety SBMS SA	N	1	2	3	3	18								
Transporting radioactive materials to another building on site	Radioactive contamination from dispersed materials, loss of material control, spills	Training, dosimetry, postings, Work Permits, RWPs, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radiological surveys, shielding, packaging, labeling, secondary containment for liquids/powders, government vehicle, FS notifications, Hazardous Material Transportation Safety SBMS	N	1	2	3	3	18								

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				Before Additional Controls					After Additional Controls							
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Working with Accountable Nuclear Materials	Radiation exposure	Training, dosimetry, postings, Work Permits, RWP's, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, calibrated instruments, ALARA Coordinator, Administrative Control Levels, radio-logical surveys, review & inventory by I&SM, Material Balance Area defined & custodian appointed, proper storage, labeling, criticality review as required, shielding, PPE	N	1	2	2	2	8								
Working with Accountable Nuclear Materials	Radioactive contamination from dispersed materials	Training, dosimetry, postings, Work Permits, RWP's, ESRs, inventory, RADCON manual, RCT monitoring & assistance as needed, PPE, calibrated instruments, ALARA Coordinator, Administrative Control Levels, containments, fume hoods, glove boxes, physical areas/boundaries, radiological surveys, labeling, hood face velocity tests, personnel monitoring	N	1	2	3	2	12								
Further Description of Controls Added to Reduce Risk:																
*Risk:	0 to 20 Negligible	21 to 40 Acceptable	41 to 60 Moderate					61 to 80 Substantial		81 or greater Intolerable						